## <u>Claims</u>

What is claimed is:

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- 1. A process for reusing circuit boards, comprising:
- a) determining a type of solder used on a populated circuit board;
- b) selecting a bio-slurry designed to remove the type of solder; and
- c) separating the populated circuit board into a plurality of components and a circuit board.
  - 2. The process of claim 1, further including the steps of:
- d) separating the plurality of components into a first group of reusable components and a second group of recyclable components.
  - 3. The process of claim 2, further including the steps of:
- e) pulverizing at least a portion of the second group of recyclable components into a plurality of pieces; and
  - f) placing the pieces in a second bio-slurry to separate a metal.
  - 4. The process of claim 3, wherein step (e) includes the step of:

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- e1) selecting the at least the portion of the second group of recyclable components, based on a type of metal present.
  - 5. The process of claim 2, further including the steps of:

e) segregating the first group of reusable components into a plurality of

	ciasse	classes of components.		
5	of:	6.	The process of claim 1, wherein step (a) further includes the step	
			a1) determining if the type of solder contains lead.	
10		7.	The process of claim 1, further including the step of:	
			parating a water from the bio-slurry to form a sludge; parating a metal from the sludge.	
15		8.	A process for recycling circuit boards, comprising the steps of;	
			ecting a bio-slurry to remove a solder of a populated circuit board; nersing the populated circuit board in the bio-slurry; and	
20	and a	c) separating the populated circuit board into a plurality of component and a circuit board.		
		9.	The process of claim 8, further including the step of:	
25		, •	verizing the circuit board into a plurality of pieces; cing the plurality of pieces in a second bio-slurry.	
	of:	10.	The process of claim 8, wherein step (a) further includes the step	

a1) identifying a type of solder used on the populated circuit board. 11. The process of claim 10, wherein step (a1) further includes the step 5 of determining if the type of solder includes lead. 12. The process of claim 10, further including the step of: a2) selecting the bio-slurry based on the type of solder. 10 13. The process of claim 8, further including the step of: d) separating the plurality of components into groups. 14. 15 The process of claim 13, further including the step of: e) determining for each of the groups if any components therein contain lead. 15. The process of claim 14, further including the step of: 20 f) pulverizing any group of components that contain lead to form a plurality of pieces; g) placing the plurality of pieces in a bio-slurry.

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	16. A process of recycling circuit boards, comprising the steps of:			
	a) grinding a circuit board into a plurality of pieces;			
	b) placing the plurality of pieces in a bio-slurry; and			
5	c) extracting a metal.			
	17. The process of claim 16, wherein step (a) further includes the step of:			
10	a1) determining a level of lead content in a circuit board;			
	a2) when the level of lead does not exceed a predetermined			
	threshold, selecting a first type of bio-slurry.			
	18. The process of claim 17, further including the step of:			
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	a3) when the level of lead does exceed a predetermined threshold,			
selecting a second type of bio-slurry.				
	19. The process of claim 16, further including the step of:			
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	d) removing a liquid from the bio-slurry;			
	20. the process of claim 19, further including the step of:			
25	e) processing the liquid to have a non-contaminated water.			